2.7

Characteristics of Aquatic Discharge Systems (WAC 463-42-185)

WAC 463-42-185 PROPOSAL — CHARACTERISTICS OF AQUATIC DISCHARGE SYSTEMS.
Where discharges into a watercourse are involved, the applicant shall identify outfall configurations and show proposed locations.
[Statutory Authority: RCW 80.50.040(1) and chapter 80.50 RCW.
81-21-006 (Order 81-5), §463-42-185, filed 10/8/81. Formerly WAC 463-42-440.]

2.7 CHARACTERISTICS OF AQUATIC DISCHARGE SYSTEMS (WAC 463-42-185)

The Phase II project will use the same blowdown line and outfall that Phase I will use. The outfall includes a diffuser, which was designed to disperse the effluents as required to comply with the National Pollutant Discharge Elimination System (NPDES) permit (NPDES Permit #WA-002496-1). Detailed information on the design, location, and construction, of the outfall is presented in documents previously submitted to EFSEC as a part of the application for the Site Certification Agreement for the nuclear projects and in subsequent related documents.

The existing blowdown line and outfall are owned by the Grays Harbor Public Development Authority. The transfer agreement between Energy Northwest and the Satsop Redevelopment Project guarantees the use of the blowdown line and outfall for Satsop CT Project discharges. Currently, there are no process discharges entering the blowdown line.

An existing NPDES permit governs wastewater discharges from the Satsop CT and stormwater discharges from the Satsop Development Park. As described in Section 2.8 - Wastewater Treatment, WAC 463-42-195, effluent from the CT project will meet the stipulations of the existing NPDES permit. (See Section 7.1.)

Cooling tower blowdown will enter the Chehalis River at river mile 20.5 through an existing blowdown diffuser structure. The blowdown pipe is buried beneath the river bottom, and connects about 150 feet from the south river bank to a 30-foot-long multiport diffuser, which is also buried beneath the river bottom. The original design for the diffuser includes an 18-inch-diameter pipe perforated with 46 discharge ports (or nozzles) that project 1 foot above the river bottom and discharge in a downstream direction at a 12-degree angle above the horizontal. The ports are 2 inches in diameter and are spaced at 8-inch intervals. It has been determined that the diffuser structure has been damaged by snags catching on the discharge ports. An engineering review will be made to determine if modifications to the existing diffuser will be needed for Satsop CT discharges.